

STS-110 LAUNCH DAY VIDEO REVIEW
KSC Photo/Video Analysis Team
8 April 2002

Significant Anomalies

None

Minor Anomalies

None.

Funnies

None.

Observations

Tile chip was visible on upper surface of body flap to the right of SSME #3 bell. (OTV 170)

Numerous pieces of ice from the ET/ORB umbilical shook loose and contacted umbilical sill tiles, but no damage was detected. (OTV 109, 154, 163).

Free burning hydrogen blown under body flap by the wind. (OTV 163, 170, 171).

LH2 and LO2 T-0 umbilical disconnect was normal. (OTV 149, 150).

Frost was visible around -Y and +Y ET GOX vent louver. (OTV 160, 161).

Two pieces of aft skirt instafoam ejected out of the SRB plume during ascent, at approximately 73 and 79 seconds after T-0 (TV 4B).

Throat plug material was ejected from the LH SRB exhaust hole; no vehicle contact noted. (OTV 163).

White debris, possibly paper, entered field of view after vehicle cleared the tower. (OTV 161).

OMS assist burn was visible following SRB separation. (TV 13).

ET aft dome charring was visible. (TV 2, TV 13)

Several ice particles originating from the forward LO2 feedline bellows were observed between ET and Orbiter. One particle contacted Orbiter lower surface tiles; no tile damage was noted. (OTV 161).

Notes

A total of 19 videos were made available for review.

Review of long range tracking films is scheduled to begin Tuesday, April 9, 2002.

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